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TITLE: METHOD FOR SUPPRESSING BACTERIA IN COOLING
TOWER
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ABSTRACT:

PROBLEM TO BE SOLVED: To suppress proliferation of bacteria in a cooling tower by providing a far-infrared ray radiating article to radiate the far-infrared ray of the prescribed wavelength in the middle of a circulating passage of cooling water or a water feeding passage of supply water which is the refrigerant for heat exchange to be cooled in the cooling tower.

SOLUTION: A far-infrared ray radiating article 3a which is formed of ceramic in a columnar shape with the mixture of carbide and metallic oxide and radiates the far-infrared ray of the wavelength of 6-15 μ m is provided in a water activation device 3 provided in the middle of a water supply tube. A coil 3b which is a far-infrared ray absorbing member whose absorbance and the

emission

ratio of the far-infrared ray is improved by baking the stainless steel, is

provided with the far-infrared ray radiating substance 3a coiled around its

outer circumference and fitted to a fitting plate 3c. When the supply water

passes through the water activation device 3, it is brought into contact with

the far-infrared ray radiating substance 3a, and the cluster condition of water

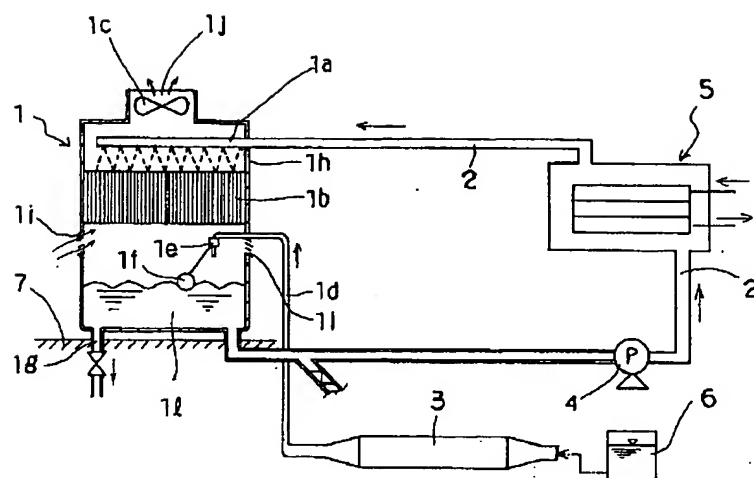
is changed into the activated condition. The cooling water is activated by

introducing the activated supply water into the cooling water to greatly

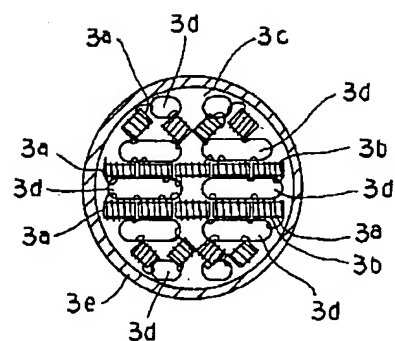
suppress generation and proliferation of bacteria.

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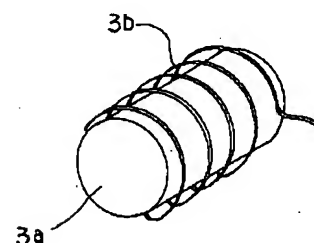
【図1】



【図3】



【図4】



【図2】

